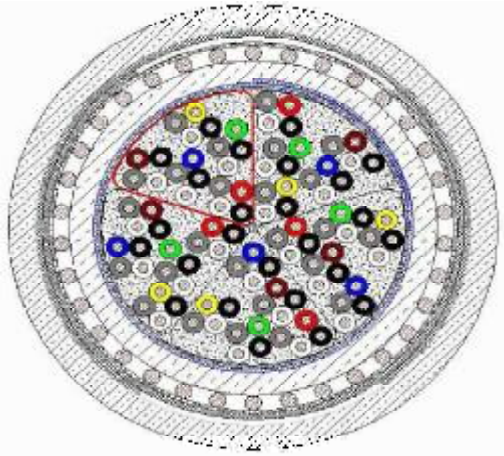
Exim Kábel Kft.

Telecommunication cables and wires

Qvr n x 4 x 0,4 / 0,6 / 0,8 mm
TQvr n x 4 x 0,9 mm

Foam-Skin-PE-insulated telephone cable, petrol jelly filled
with moisture barrier, protected against interferences, PE sheath



Application

Used in local networks, suitable for laying in ground or in duct.

Construction

Conductor	copper, solid, 0,4; 0,6; 0,8 or 0,9 mm, soft annealed
Insulation	foam-skin-PE (02YS)
Twisting	star quads in unit stranding (SZ-stranding)
Filling	interstices filled with petrol jelly, drop point ≥70 °C
Cable core wrapping	one or more layers of water swellable plastic tape
Moisture barrier	laminated sheath formed by an aluminium tape (at least 0.15 mm thick) coated on both sides with copolymer, and bonded with
Inner sheath	PE (2Y), black
Screen	aluminium wires 1.8, 2.27 or 2.76 mm, separating layer of one wrapped semi conductive tape
Armouring	formed by two layers of galvanized steel tape 0.5 , 0.8 or 1,0 mm, depending on
Outer sheath	PE (2Y), black

Mechanical and Thermal Properties

Temperature range

during operation	- 30°C to + 70°C
during installation	- 5°C to + 70°C

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Electrical Properties

at 20°C ± 5°C

Conductor diameter		mm	0,4	0,6	0,8	0,9
Conductor loop resistance						
	average value	Ω/km	≤288	≤127,8	≤70,6	≤56,4
	average value	Ω/km	≤230	≤130	≤73.2	≤56,4
Insulation resistance						
		GΩxkm		≥10		≥10
Mutual capacitance at 800 Hz						
	100% of all values	nF/km		43 ± 3		40 ± 3
	for one-quad cable	nF/km		≤50		≤50
Capacitance unbalance at 800 Hz						
	k1 pair to pair	pF/500m		≤800		≤800
	k9-k12 pair to pair	pF/500m		≤300		≤300
	e1-e2 pair to earth	pF/500m		≤800		≤800
Dielectric strength test at 50 Hz – 2 min						
	core/core	V		600		600
	core/screen	V		2000		2000
Spark test						
		kV		8		8

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Additional Properties

Dimension	Nominal outer diameter	Cable weight net	Standard lenght net	Drum size diameter	Transport weight	Thickness steel tape	Reduction factor minimum (50Hz)	Cu weight
	mm	kg/km	m	mm	kg/drum	mm		kg/km
Qvr nx4x0,4								
5	19,5	633	1 000	1 400	823	0,5	0,15	26
10	21,0	744	1 000	1 600	1 034	0,5	0,15	51
15	22,5	833	1 000	1 600	1 123	0,5	0,15	76
25	25,0	1 018	1 000	1 600	1 308	0,5	0,15	126
35	27,0	1 177	1 000	1 600	1 467	0,5	0,12	176
50	29,0	1 388	1 000	1 800	1 778	0,5	0,12	252
75	33,5	1 763	1 000	2 200	2 513	0,5	0,12	377
100	37,0	2 142	1 000	2 200	2 847	0,5	0,12	503
150	42,5	2 723	500	1 800	1 782	0,5	0,09	754
200	47,0	3 288	500	2 000	2 204	0,5	0,09	1006
Qvr nx4x0,6								
5	21,5	774	1 000	1 600	1 064	0,5	0,15	57
10	24,5	965	1 000	1 600	1 255	0,5	0,15	114
15	26,5	1 144	1 000	1 600	1 434	0,5	0,12	170
25	30,0	1 442	1 000	1 800	1 832	0,5	0,12	283
35	33,5	1 793	1 000	2 200	2 543	0,5	0,12	396
50	37,5	2 242	1 000	2 200	2 947	0,5	0,09	566
75	43,0	2 850	500	2 000	1 985	0,5	0,09	849
100	48,5	3 497	500	2 000	2 309	0,5	0,09	1131
150	55,5	4 615	333	2 000	2 097	0,5	0,06	1697
200	63,0	6 520	250	2 000	2 190	0,8	0,04	2262

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Dimension	Nominal outer diameter	Cable weight net	Standard lenght net	Drum size diameter	Transport weight	Thickness steel tape	Reduction factor minimum (50Hz)	Cu weight
	mm	kg/km	m	mm	kg/drum	mm		kg/km
Qvr nx4x0,8								
5	25,0	971	1 000	1 600	1 261	0,5	0,15	101
10	28,5	1 280	1 000	1 800	1 670	0,5	0,12	202
15	1 518,0	1 525	1 000	2 000	2 050	0,5	0,12	302
25	37,5	2 199	1 000	2 200	2 904	0,5	0,09	503
35	41,5	2 607	500	1 800	1 723	0,5	0,09	704
50	48,0	3 378	500	2 000	2 249	0,5	0,09	1006
75	55,0	4 424	333	2 000	2 033	0,5	0,06	1508
100	63,5	6 338	250	2 000	2 144	0,8	0,04	2011
150	75,5	9 080	250	2 400	3 190	1	0,31	3016
200	82,0	10 880	250	2 400	3 640	1	0,31	4022
TQvr nx4x0,9								
5	27,0	1 140	1 000	1 600	1 430	0,5	0,12	128
10	32,5	1 519	1 000	2 000	2 044	0,5	0,09	255
15	37,0	1 997	1 000	2 200	2 702	0,5	0,09	382